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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,483	03/31/2004	Gerald L. Dybsetter	15436.366.1	7758
22913	7590	01/11/2007	EXAMINER	
WORKMAN NYDEGGER (F/K/A WORKMAN NYDEGGER & SEELEY) 60 EAST SOUTH TEMPLE 1000 EAGLE GATE TOWER SALT LAKE CITY, UT 84111			PATEL, NIMESH G	
			ART UNIT	PAPER NUMBER
			2111	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		01/11/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/814,483	DYBSETTER ET AL.
	Examiner	Art Unit
	Nimesh G. Patel	2111

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 31 March 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-39 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 31 March 2004 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date 20041221.
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-5, 8-10, 12, 13, 23-26 and 28-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Creedon et al.(US 6,385,669).

3. Regarding claim 1, Creedon discloses a system that includes a master component(Figure 1, 10) that is configured to communicate with one or more slave components(Figure 1, 11) over a clock wire(Figure 1, 12) and a data wire(Figure 1, 13), a method for the master component communicating over the data wire while enabling recovery of synchronization between the master component and the one or more slave components, the method comprising the following: an act of determining that an operation is to be performed on a slave component of the one or more slave components; an act of monitoring the data wire of the two-wire interface upon determining that the operation is to be performed on the slave component; an act of detecting at least the predetermined number of consecutive bits of the same binary polarity have occurred on the data wire during the act of monitoring the data wire(Column 4, Lines 62-67); and an act of asserting a frame of a two-wire interface on the data wire in response to the act of detecting that the predetermined number of consecutive bits of the same polarity have occurred on the data wire(Figure 4).

4. Regarding claim 2, Creedon discloses a method, wherein the two-wire interface is a guaranteed header two-wire interface(Figure 4).

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5. Regarding claim 3, Creedon discloses a method, wherein the two-wire interface is not a guaranteed header two-wire interface(Column 4, Line 67-Column 5, Line 6).
6. Regarding claim 4, Creedon discloses a method, wherein the act of detecting at least the predetermined number of consecutive bits comprises the following: an act of detecting at least the predetermined number of consecutive bits of a logical one(Column 4, Lines 62-67).
7. Regarding claim 5, Creedon discloses a method, wherein the data wire is pulled high when no components are asserting binary values on the data wire(Column 4, Lines 43-44).
8. Regarding claim 8, Creedon discloses a method, further comprising the following: an act of the master component asserting a clock signal on the clock wire during at least some of the act of monitoring the data wire(Column 4, Lines 62-67).
9. Regarding claim 9, Creedon discloses a method, further comprising the following: an act of the master component asserting a voltage level on the data wire during only a portion of the act of monitoring(Column 4, Lines 62-67).
10. Regarding claim 10, Creedon discloses a method, wherein the data wire is pulled high when no components are asserting binary values on the data wire(Column 4, Lines 43-44).
11. Regarding claim 12, Creedon discloses a method, further comprising the following: an act of the master component refraining from asserting a voltage level on the data wire during the act of monitoring(Column 4, Lines 62-67).
12. Regarding claim 13, Creedon discloses a method, wherein the data wire is pulled high when no components are asserting binary values on the data wire(Column 4, Lines 62-67).
13. Regarding claim 23, Creedon discloses a system comprising the following: a master component(Figure 1, 10); a slave component(Figure 1, 11); a clock wire(Figure 1, 14) interconnected between the master component and the slave component; a data wire(Figure 1, 13) interconnected between the master component and the slave component, wherein the

master component is configured to perform the following: an act of determining that an operation is to be performed on the slave component; an act of monitoring the data wire of the two-wire interface upon determining that the operation is to be performed on the slave component; an act of detecting at least the predetermined number of consecutive bits of the same binary polarity have occurred on the data wire during the act of monitoring the data wire(Column 4, Lines 62-67); and an act of asserting a frame of a two-wire interface on the data wire in response to the act of detecting that the predetermined number of consecutive bits of the same polarity have occurred on the data wire(Figure 4).

14. Regarding claim 24, Creedon discloses a system, wherein the two-wire interface is a guaranteed header two-wire interface(Figure 4).

15. Regarding claim 25, Creedon discloses a system, wherein the two-wire interface is not a guaranteed header two-wire interface(Column 4, Line 67-Column 5, Line 6).

16. Regarding claim 26, Creedon discloses a system, wherein the data wire is pulled high when no components are asserting binary values on the data wire(Column 4, Lines 43-44).

17. Regarding claim 28, Creedon discloses a master component that is configured to do the following when coupled to a slave component via a clock wire and a data wire: an act of determining that an operation is to be performed on the slave component; an act of monitoring the data wire of the two-wire interface upon determining that the operation is to be performed on the slave component; an act of detecting at least the predetermined number of consecutive bits of the same binary polarity have occurred on the data wire during the act of monitoring the data wire(Column 4, Lines 62-67); and an act of asserting a frame of a two-wire interface on the data wire in response to the act of detecting that the predetermined number of consecutive bits of the same polarity have occurred on the data wire(Figure 4).

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18. Regarding claim 29, Creedon discloses a master component, wherein the two-wire interface is a guaranteed header two-wire interface(Figure 4).

19. Regarding claim 30, Creedon discloses a master component, wherein the two-wire interface is not a guaranteed header two-wire interface(Column 4, Line 67-Column 5, Line 6).

***Claim Rejections - 35 USC § 103***

20. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

21. Claims 6, 7, 11, 14-22 and 31-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Creedon, in view of what is well known in the art.

22. Regarding claims 6 and 27, Creedon does not specifically disclose a system and method, wherein an act of detecting at least the predetermined number of consecutive bits of a logical zero. However, official notice is being taken that pull-down resistors are well known in the art and easily replace pull up resistors when a default zero logic is desired instead of logic one. It would have been obvious to one of ordinary skill in the art to replace the pull-up resistor with a pull-down resistor so the master can detect logical zeros as the preamble.

23. Regarding claim 7, a pull down resistor, as explained above, would pull the data wire low if no components are asserting binary values.

24. Regarding claims 11 and 14, Creedon does not specifically disclose a method, wherein the data wire is pulled low when no components are asserting binary values on the data wire. However, official notice is being taken that pull-down resistors are well known in the art and easily replace pull up resistors when a default zero logic is desired instead of logic one. It would

have been obvious to one of ordinary skill in the art to replace the pull-up resistor with a pull-down resistor so that the data wire is pulled low when no components are asserting binary values on the data wire.

25. Regarding claims 15-18 Creedon does not specifically disclose a method, wherein, an act of determining that a read or write operation is to be performed with an extended or shorter address as compared to other frames communicated over the data wire. However, official notice is being taken components having different size addresses is well known in the art. It would have been obvious to one of ordinary skill in the art to determine a read or write operation is to be performed with an extended or shorter address to address component with different address sizes.

26. Regarding claims 19 and 20, Creedon does not specifically disclose a method, wherein an act of determining that a read or write operation is to be performed with cyclic redundancy checking over the data wire. However, official notice is being taken CRC checking is well known in the art. It would have been obvious to one of ordinary skill in the art to use CRC checking to ensure there are no errors during transmission.

27. Regarding claims 21 and 22, Creedon does not specifically disclose a method, wherein an act of determining that a read or write operation is to be performed with acknowledgements over the data wire. However, official notice is being taken acknowledgements are well known in the art. It would have been obvious to one of ordinary skill in the art to use acknowledgements since this would ensure the master and slave receiving data properly.

28. Regarding claims 31-39, Creedon does not specifically disclose a master component, wherein the master component is implemented in a laser transmitter/receiver and the various types of laser transmitter/receivers. However, official notice is being taken, that it is well known in the art to use various types of laser transmitter/receivers. It would have been obvious to use

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any types of laser transmitter/receivers to its realize the respective desired benefit of each type of laser transmitter/receiver.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nimesh G. Patel whose telephone number is 571-272-3640. The examiner can normally be reached on M-F, 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinehart H. Mark can be reached on 571-272-3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nimesh G Patel  
Examiner  
Art Unit 2111

NP  
January 5, 2007

  
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